Hatris JTDB Query Tool

HIGHWAYS AGENCY

User Guide

Login

To access the query tool you will need to login using your current TRADS account username and password. If you do not have a TRADS account please visit this link:

https://trads.hatris.co.uk/admin_user_request_add.php

To login to the Query Tool enter your username and password into the area shown in fig. 1 below and click the 'Login' button.

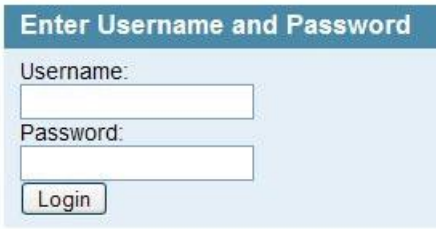

Figure 1

Select Dates & Roads

Once you have logged in you will be presented with the 'Select Dates & Roads' screen. Here you will be able select the dates, time period and road you are interested in.

First select the date range using the area shown in fig. 2. You need to select the start date and the end date of the chosen range. The range can be a single day or a longer period (although shorter periods are recommended to keep the amount of data to a reasonable size).

Figure 2

To select a single days worth of data, the start date should be the same as the end date, e.g. for data from 01/09/2002, a start date of 01/09/2002 and an end date of 01/09/2002 should be selected.

To select a week's worth of data, then the first date of that week and the end date of that week should be selected, e.g. for the week Monday 02/09/2002 to Sunday 08/09/2002, a start date of 02/09/2002 and an end date of 08/09/2002 should be selected.

The dates can be selected in two ways, using the drop down list or the calendar.

- To use the drop down list, click on the down arrow immediately to the right of the date and use the scroll bar to scroll to the date required and click on that date.

- To use the calendar, click on the calendar icon to the right of the drop down list. On clicking on the icon a calendar will appear. To navigate to the month required use the arrowed buttons at the top of the calendar (the single arrowed buttons will month a single month and the double arrowed buttons will move a whole year). Once you are at the required month the click on the required date to select it.

Next you will select the time period. The results of the query can be shown in two intervals; either 15 minute intervals or hourly intervals. To select the interval you required click on the button to the left of the interval type in the area shown in fig. 3.

Figure 3

Next you will select the Road which contains the links you would like to see results for. To select a road, click on the road name in the list box in the area shown in fig. 4. To view roads further down the list use the scroll bar to the right of the list.

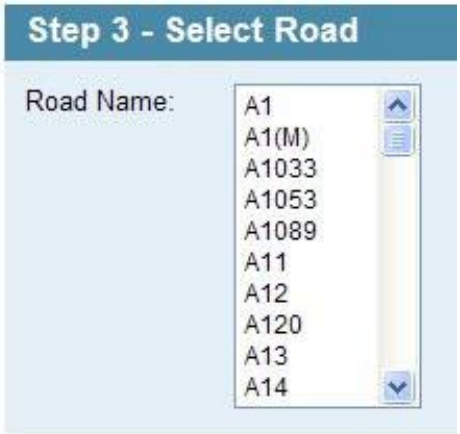

Figure 4

Once the Date Range, Interval and Road have been selected then click on the 'Next' button at the bottom right corner of the page. If you click 'Next' before making all the required selections, you will not be able to proceed and will be informed about which selections you have still to make. Once all the required selections have been made you will be sent to the 'Select Link(s)' page.

Select Link(s)

On this page you will be able to select which link(s) you wish to view data for from the road you selected from the previous page and the way in which you want the results to be displayed.

First select the link(s) for which you want the results using the area shown in fig. 5.

To select all of the links in the list you can click on the 'Select All' link, to remove all selections click on 'Select None' link.

Individual selections can be made by clicking on the checkboxes to the left of each link or clicking on the row of the link.

	Road Ref	Start X	Start Y	End X	End Y	Description	Length	Speed Limit
☐	AL1073	488783	336534	489972	334190	A52 to A607	2.94	112
☐	AL1165	471899	373718	473788	371117	A57 to A6075	3.40	112
☐	AL1166	473779	371107	471959	373597	A6075 to A57	3.24	112
☐	AL1167	473788	371117	481363	355871	A6075 to A46	18.48	112
☐	AL1171	464800	380216	464610	378175	A620 to A57	2.05	112
☐	AL1173	462412	388310	464800	380216	A1(M) J34 to A620	8.84	112
☐	AL1178	419811	612057	418228	588516	A1068 to A697	24.95	96

Figure 5

Next select the way in which you would like the results to be displayed using the area shown in fig. 6.

Selecting 'Screen' will output the results into a table on the results page. Select 'CSV' will output the results to a CSV file which can be saved to you PC and viewed using Microsoft Excel. Note: There is still an option to export the results to a CSV file from the results page, selecting 'CSV' at this stage merely misses out displaying the results on the results page.

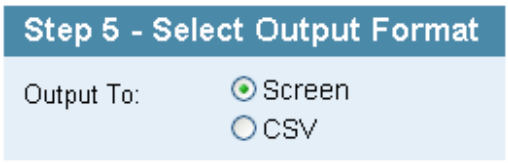

Figure 6

Once you have selected the links you are interested in and selected the way you would like to view the results then click on the 'Next' button at the bottom right of the page. Again, if you click 'Next' before making all the required selections, you will not be able to proceed and will be informed about which selections you have still to make. Once all the required selections have been made you will be sent to the 'Results' page. Please note that if you have selected to view more than 1,000 lines of data your results will automatically be sent to a CSV file. The Query Tool can only display/export up to 10,000 lines of data, if this does not meet your requirements please contact trads.support@capita.co.uk

Results

On this page you will be presented with the results of your query (see fig. 7 below). From here you can view the results, export the results to CSV using the 'Export To CSV' link, or view the results in a full window using the 'View In Full Window' link, which provides more space on the page for the table. To print results, you can use the print function provide by your internet browser.

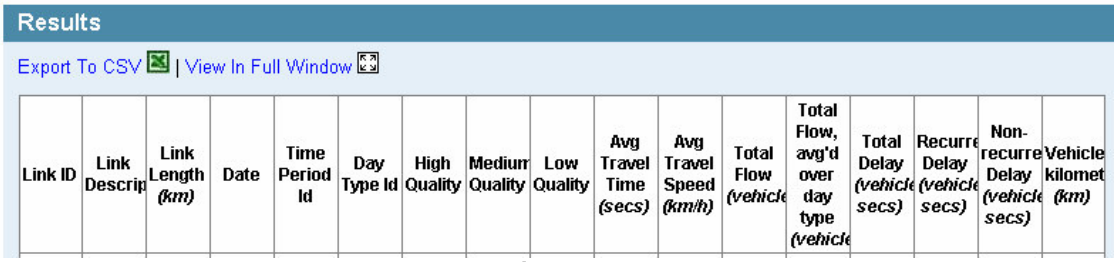

Figure 7

- It was agreed at the TUG (Technical User Group) that columns Recurrent Delay and Non-recurrent Delay for both 15 min and Hourly periods will no longer be displayed as of 15 October 2009.

Appendix A - Table Definitions

Field Name	Description
Link ID	The unique ID of the link.
Link Description	A description of the link.
Link Length	The length of the link in kilometres
Date	The date when the data was recorded
Time Period	The time period in which the data was recorded
Day Type	A category of days on which traffic conditions are expected to be similar. HATRIS uses a set of 21 day types (see Appendix B)
Quality	The quality of the data for that link / time period (HIGH, MEDIUM or LOW)
Avg Travel Time	The Average Time for a vehicle to travel through the link.
Avg Travel Speed	The Average Speed of a vehicle travelling through the link.
Total Flow	The total number of vehicles that passed through the link at the particular time period.
Total Flow, avg'd over day type	Adjusted flow based on an average for the particular day type.
Total Delay	The total delay incurred by a set of vehicles. Calculated by subtracting the average journey time from the average journey time at a reference speed (free flow speed), to calculate the delay for an average vehicle, and multiplying by the flow, to sum the total delay for all vehicles. Only positive values of delay, when the average journey time is longer than the average journey time at the reference speed, are counted. Total delay can be summed over links and time intervals. The units are time and the measure is related to a given length of road or set of links and a time interval or set of time intervals. The total delay for the whole of the HA network for one day is calculated by summing the total delay for each link and the 96 15-minute intervals.
Recurrent Delay	An estimate of the portion of the total delay that is recurrent (due to sheer weight of traffic).
Non- recurrent Delay	An estimate of the portion of the total delay that is not recurrent and may be due to roadworks or incidents.
Vehicle kilometres	The total distance covered by all the vehicles that passed through the link in the time period.

Appendix B – Day Types

Description	Day Name	Day Type ID
First Working day of normal week	Any	0
Normal working Tuesday	Tuesday	1
Normal working Wednesday	Wednesday	2
Normal working Thursday	Thursday	3
Last Working day of normal week	Any	4
Saturday	Saturday	5
Sunday	Sunday	6
First day of week - School holidays	Any	7
Middle of week - School holidays	Any	9
Last day of week - school holidays	Any	11
Bank Holidays	Any	12
Christmas period holidays	Any	13
Christmas day/new years day	Any	14

Christmas Day can fall on any day of the week.

* Autumn and Spring terms may be different in different English counties. Both weeks should be included in school holidays.